BEST AVAILABLE COPY

PTO/SB/08A (08-03) Approved for use through 07/31/2008. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete II Khown

254-094-CIP5/AK 146859

10/631,886

July 11, 2003

37 38 10 10 1449/PTO

Sheet

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of

First Named Inventor James W. Cady, et al. Art Unit 2841 **Examiner Name** TBA

**Attorney Docket Number** 

Filing Date

Application Number

U.S. PAMENTOOCUMENTS Document Number Pages, Columns, Lines, Where Examiner **Publication Date** Name of Patentee or No. Relevant Passages or Relevant
Figures Appear MM-DD-YYYY Initials\* Applicant of Cited Document Number-Kind Code<sup>2 (If known)</sup> 7/19/2005 US-6,919,626 B2 Burns US-6,914,324 B2 7/5/2005 Rapport, et al. US-6,908,792 B2 6/21/2005 Bruce, et al. US-6,884,653 4/26/2005 Larson 10/12/2004 US-6.803.651 Chiang US-6,709,893 3/23/2004 Moden, et al. US-6,699,730 B2 3/2/2004 Kim, et al. US-6,690,584 2/10/2004 Uzuka, et al US-6,683,377 1/27/2004 Shim, et al. US-6,677,670 B2 1/13/2004 Kondo US-6,614,664 9/2/2003 Lee US-6,588,095 7/8/2003 Pan 6/10/2003 Cady, et al. US-6,576,992 US-6,552,910 B1 4/22/2003 Moon, et al. US-6,528,870 B2 3/4/2003 Fukatsu, et al. US-6,509,639 1/21/2003 12/3/2002 US-6,489,687 B1 Hashimoto US-6,489,178 12/3/2002 Coyle, et al. US-6,444,490 9/3/2002 Bertin, et al. US-6,426,560 B1 7/30/2002 Kawamura, et al.

	Cite	Cite	Cite		Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	76
	No. <sup>1</sup>	Country Code <sup>3</sup> –Number <sup>4</sup> –Kind Code <sup>5 (if known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear				
				**					
						$\Box$			
						Г			

Examiner Date Considered Signature

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Paper No. 0805a

AUS:572666.1

Complete II Known Substitute for form 1449/PTO **Application Number** 10/631,886 Filing Date July 11, 2003 INFORMATION DISCLOSURE First Named Inventor James W. Cady, et al. STATEMENT BY APPLICANT Art Unit 2841 (Use as many sheets as necessary) TBA **Examiner Name** Sheet 2 of 8 **Attorney Docket Number** 254-094-CIP5/AK 146859

xaminer	Cite No.1	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant
Infliats		Number-Kind Code <sup>2 (If known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Clina Figures Appear in Are
191		US-6,376,769 B1	4/23/2002	Chung	
		US-6,329,708	12/11/2001	Komiyama	
		US-6,316,825	11/13/2001	Park, et al.	
		US-6,310,392	10/30/2001	Burns	
		US-6,288,907 B1	9/11/2001	Bums	
		US-6,285,560	9/4/2001	Lyne	
		US-6,187,652 B1	2/13/2001	Chou, et al.	
		US-6,178,093 B1	1/23/2001	Bhatt, et al.	
		US-6,165,817	12/26/2000	Akram	
		US-6,157,541	12/5/2000	Hacke	
		US-6,121,676	9/19/2000	Solberg	
		US-6,084,294	7/4/2000	Tomita	
		US-6,084,293	7/4/2000	Ohuchi	
		US-6,002,167	12/14/1999	Hatano, et al.	
		US-5,973,395	10/26/1999	Suzuki, et al.	
		US-5,963,427	10/5/1999	Bolleson	
		US-5,922,061	7/13/1999	Robinson	
		US-5,917,709	6/29/1999	Johnson, et al.	
AV _		US-5,895,970	4/20/1999	Miyoshi, et al.	
RI		US-5,841,721	11/24/1998	Kwon, et al.	

Examiner Cite No.1	Cite	Foreign Patent Dosument	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Ι,
	No.1	Country Code <sup>3</sup> –Number <sup>4</sup> –Kind Code <sup>5 (# known)</sup>				Ľ,
····						L
	<u> </u>					L
						┝
						H

Examiner Signature In S. Vignotini Date Considered October 02, 2000

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Paper No. 0805a

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete II Known Substitute for form 1449/PTO **Application Number** 10/631,886 July 11, 2003 Filing Date INFORMATION DISCLOSURE First Named Inventor James W. Cady, et al. STATEMENT BY APPLICANT **Art Unit** 2841 (Use as many sheets as necessary) **Examiner Name TBA** Attorney Docket Number 254-094-CIP5/AK 146859

xaminer	Cite No.1	Document Number	Publication Da	ate N	ame of Patentee or		s, Lines, Where
Initials*	No.	Number-Kind Code <sup>2 (thoown)</sup>	MM-DD-YYY		cant of Cited Document	Ratevant Passa Figures	ages or Relayant
W.V		US-5,804,870	9/8/1998	Burns	•		
		US-5,801,439	9/1/1998	Fujisawa,	et al.		
		US-5,789,815	8/4/1998	Tessier, et	al.		T
		US-5,783,464	7/21/1998	Burns			
		US-5,764,497	6/9/1998	Mizumo, e	t al.		
		US-5,763,296	6/9/1998	Casati, et	al,		
		US-5,729,894	3/24/1998	Rostoker,	et al.		
		US-5,657,537	8/19/1997	Saia, et al.			
		US-5,646,446	7/8/1997	Nicewarne	r, Jr. et al.		
		US-5,642,055	6/24/1997	Difranceso	0		
		US-5,588,205	12/31/1996	Roane	•		
		US-5,523,695	6/4/1996	Lin			
		US-5,502,333	3/26/1996	Bertin, et	al.		
		US-5,477,082	12/19/1995	Buckley III	et al.		
$\top$		US-5,438,224	8/1/1995	Papageorg	e, et al.		
		US-5,394,303	2/28/1995	Yamaji			
		US-5,386,341	1/31/1995	Olson, et a	l.		
11		US-5,361,228	11/1/1994	Adachi, e	et al.		
V.		US-5,357,478	10/18/1994	Kikuda, et	al.		
131		US-5,252,857	10/12/1993	Kane, et al			† <del></del>
i di in	s de illa		₩ <b>NEOREIGN</b>	PATENT DOCU	MENTS		
aminer	Cite	Foreign Patent Docum		Publication Date	Name of Patentee or	Pages, Columns	s. Lines.
tials*	No.1	Country Code <sup>3</sup> –Number <sup>4</sup> –Kind (		MM-DD-YYYY	Applicant of Cited Document	Where Relevant Figure	Passages T <sup>6</sup>
				•			
						1	

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ¹ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Considered

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Paper No 0805a

Examiner Signature

· Complete fil known Substitute for form 1449/PTO **Application Number** 10/631,886 Filing Date July 11, 2003 INFORMATION DISCLOSURE First Named Inventor James W. Cady, et al. STATEMENT BY APPLICANT Art Unit 2841 (Use as many sheets as necessary) **Examiner Name** TBA 254-094-CIF5/AK 146859 Sheet **Attorney Docket Number** 

xaminer	Cite No.	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant
nitials*		Number-Kind Code <sup>2 (It known)</sup>	MM-DD-YYYY	Applicant of Clied Document	Clara Figures Appear was
W.V		US-5,252,855	10/12/1993	Ogawa, et al.	
P		US-5,229,916	7/20/1993	Frankeny, et al.	
		US-5,214,307	5/25/1993	Davis	
		US-5,198,965	3/30/1993	Curtis, et al.	
		US-5,168,926	12/8/1992	Watson, et al.	
		US-5,159,535	10/27/1992	Desai, et al.	
		US-5,138,434	8/11/1992	Wood, et al.	
7		US-5,068,708	11/26/1991	Newman	
		US-5,057,903	10/15/1991	Olla	
		US-5,041,902	8/20/1991	McShane	
		US-4,712,129	12/8/1987	Orcutt	
		US-4,587,596	5/6/1986	Bunnell	
		US-3,983,547	9/28/1976	Almasi	
		US-2004/0115866 A1	6/17/2004	Bang, et al.	
		US-2004/0099938 A1	5/27/2004	Kang, et al.	
		US-2004/0065963 A1	4/8/2004	Karnezos	
		US-2004/0021211 A1	2/5/2004	Damberg	
		US-2004/0000708 A1	1/1/2004	Rapport, et al.	
V		US-2003/0168725 A1	9/11/2003	Warner, et al.	
KPV		US-2003/0109078 A1	6/12/2003	Takahashi, et al.	

disease of Citary 18th and Delevent Desease 1
licant of Cited Where Relevant Passages or Relevant Figures Appear
·

Examiner Signature Date Considered October Office Considered

\* EXAMINER: Infinal if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 

Applicant's unique citation designation number (optional). 

See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 

Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 

For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 

Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 

Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patenta, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Papa No O80 Sa

Complete/f(Known) Substitute for form 1449/PTO **Application Number** 10/631,886 Filing Date July 11, 2003 INFORMATION DISCLOSURE First Named Inventor James W. Cady, et al. STATEMENT BY APPLICANT Art Unit (Use as many sheets as necessary) **Examiner Name TBA** Sheet 5 **Attorney Docket Number** 254-094-CIP5/AK 146859

Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (# known)</sup>	Publication Da MM-DD-YYY		ume of Patentee or ant of Cited Document	Pages, Colum Relevant Pass	ages or Rele	evant
lev		US-2003/0081392	5/1/2003	Cady, et al.		Class Figure	3 AppeaUL	N
		US-2003/0045025	3/6/2003	<del></del>			+	$\overline{}$
<del>-  </del>		US-2003/0016710	1/23/2003	Kamoto	Coyle, et al.		+==	
		US-2002/0076919	6/20/2002	Peters, et a	1	+==		_
_		US-2002/00/6919	4/25/2002	<del></del>	ll.	<del> </del>		
-		· · · · · · · · · · · · · · · · · · ·	3/14/2002	Isaak		1	<del>  ===</del>	$\overline{}$
+	-	US-2002/0030995		Shoji				
<del>- </del>		US-2001/0040793 A1	11/15/2001	Inaba				$\geq$
		US-2001/0035572	11/1/2001	Isaak			1	$\overline{}$
-		US-2001/0015487	8/23/2001	Forthun				$\equiv$
-		US-2001/0006252 A1	7/5/2001	Kim, et al.				
1		US-6,891,729	5/10/2005	Ko, et al.				
1		US-6,876,074 B2	4/5/2005	Kim		,		
1		US-6,849,949	2/1/2005	Lyu, et al.			1 -	$\overline{}$
-		US-6,833,984 B1	12/21/2004	Belgacem				
-		US-6,812,567	11/2/2004	Kim, et al.			1==	_
		US-6,781,240	8/24/2004	Choi, et al.			<b></b>	_
-		US-6,768,660	7/27/2004	Kong, et al.				
1		US-6,660,561 B2	12/9/2003		Forthun		1_	
V.	ļ	US-6,657,134	12/2/2003	Spielberger,				$\supseteq$
		US-6,627,984 B2	9/30/2003	Bruce, et al.				$\overline{}$
		39- ac	FORFION	DATENT BOOK	nome numera New - Asia		<u> </u>	
		Foreign Patent Docum		<del></del>	Name of Patentee or	Pages, Column	s Lines	т
kaminer itials*	Cite No.1	Country Code <sup>3</sup> —Number <sup>4</sup> —Kind		Publication Date MM-DD-YYYY	Applicant of Cited	Where Relevant	Passages	T
		Country Code - Warnber - Kind (	code		Document	or Relevant Figu	res Appear	-
								L
								H
				· ·	,	<del> </del>		1
								_
				<del></del>				

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. Applicant is to place a check mark here if English language Translation is attached.

Date

Considered

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Paper No. 0805a

Examiner

Signature

Gomplete if Known Substitute for form 1449/PTO **Application Number** 10/631,886 July 11, 2003 Filing Date INFORMATION DISCLOSURE First Named Inventor James W. Cady, et al. STATEMENT BY APPLICANT **Art Unit** 2841 (Use as many sheets as necessary) Examiner Name TBA 6 Sheet of 8 **Attorney Docket Number** 254-094-CIP5/AK 146859

xaminer	Cite No.1	Document Number	Publication Date	NTDOCUMENTS A PARTIE OF Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant
Initials*		Number-Kind Code <sup>2 (If known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Figures Appear ukr
187		US-6,452,826	9/17/2002	Kim, et al.	
		US-6,449,159	9/10/2002	Haba	
		US-6,313,998	11/6/2001	Kledzik .	
		US-6,303,981	10/16/2001	Moden	
T = T		US-5,925,934	7/20/1999	Lim	
T =		US-5,778,522 A	7/14/1998	Burns	
T = T		US-5,744,827	4/28/1998	Jeong,et al.	
		US-5,677,569	10/14/1997	Choi, et al.	
$\mathbf{I}$		US-5,243,133	9/7/1993	Engle, et al.	
		US-5,240,588	8/3/1993	Uchida	
		US-5,219,794	6/15/1993	Satoh, et al.	
		US-5,158,912	10/27/1992	Kellerman, et al.	
		US-5,122,862	6/16/1992	Kajihara, et al.	
		US-5,081,067	11/4/1992	Shirnru, et al.	
		US-5,064,762	11/12/1991	Nishiguchi	
T		US-4,839,717	6/13/1989	Phy, et al.	
		US-4,758,875	7/19/1988	Fujisawa, et al.	
12		US-4,722,691	2/2/1988	Gladd, et al.	
W		US-4,079,511	3/21/1978	Grabbe	
BV		US-3,411,122	11/12/1968	Schiller, et al.	

	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	T-6
	No.1	Country Code <sup>3</sup> –Number <sup>4</sup> –Kind Code <sup>5 (if known)</sup>	MM-DD-YYYY AF	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	1 '
						_
						┝
					•	

Examiner Signature	and.	Date Considered	Octo 01 100	_
Signature (1)	mru.	Considered	Ulareno L. 200	1

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Paper No. 0805a

<sup>\*</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete William Substitute for form 1449/PTO **Application Number** 10/631,886 Filing Date July 11, 2003 INFORMATION DISCLOSURE First Named Inventor James W. Cady, et al. STATEMENT BY APPLICANT Art Unit 2841 (Use as many sheets as necessary) **Examiner Name** TBA Sheet 7 Attorney Docket Number 254-094-CIP5/AK 146859

xaminer Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (# Innown)</sup>	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Refevant Passages or Relevant
1811		US-2005/0040508 A1	2/24/2005	Lee	Figures Appear July
<del>// /  </del>		US-2005/0035440 A1	2/17/2005	Mohammed	
1		US-2004/0245617 A1	12/9/2004	Damberg, et al.	
+		US-2004/0238931 A1	12/2/2004	Haba, et al.	
1		US-2004/0217471 (A1)	11/4/2004	Haba	
1		US-2004/0203190 A1	10/14/2004	Pflughaupt, et al.	
		US-2004/0150107 A1	8/5/2004	Cha, et al.	
		US-2004/0104470 A1	6/3/2004	Bang, et al.	
		US-2004/0031972 A1	2/19/2004	Pflughaupt, et al.	
		US-2003/0107118 A1	6/12/2003	Pflughaupt, et al.	
		US-2001/0013423 A1	2/16/2001	Dalal, et al.	
		US-6,707,684 B1	3/16/2004	Andric, et al.	
		US-6,492,718 B2	12/10/2002	Ohmori	
		US-6,360,433 B1	3/26/2003	Ross	
		US-6,336,262	1/8/2002	Dalal, et al.	
		US-6,234,820 B1	5/22/2001	Perino, et al.	
		US-6,222,737 B1	4/24/2001	Ross	
1		US-6,040,624	3/21/2000	Chambers, et al.	
		US-6,034,878	3/7/2000	Osaka, et al.	
M I		US-6,002,589	12/14/1999	Perino, et al.	

Examiner Cite No.1		Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	70
	Country Code <sup>3</sup> –Number <sup>4</sup> –Kind Code <sup>5 (if known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	F	
				, <u>-</u>		
				<u> </u>		
					,	
			-			_

Examiner Signature Date Considered Octobe, 02, 2005

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ° For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. ° Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Paper No. 0805a

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	Substitute for form 1	AA9/DTO		. Gon	mplete II Known
	Substitute for form	1773/110		Application Number	10/631,886
}	INFORMA	MOIT	DISCLOSURE	Filing Date	July 11, 2003
l				First Named Inventor	James W. Cady, et al.
			Y APPLICANT	Art Unit	2841
	(Use as	many shee	ets as necessary)	Examiner Name	TBA
Shee	8	of	8	Attorney Docket Number	254-094-CIP5/AK 146859

	Cite No.1	Document Number	Publication Date	NY DOCUMENTS  Name of Patentee or	Pages, Columns	, Lines, Where
Initials*	NO.	Number-Kind Code <sup>2 (if Interim)</sup>	MM-DD-YYYY	Applicant of Cited Document	Refevant Passages or Relevant Figures Appear	
497/		US-5,995,370	11/30/1999	Nakamori		
P		US-5,959,839	9/28/1999	Gates		
		US-5,899,705	5/4/1999	Akram		
	•	US-5,751,553	5/12/1998	Clayton	,	
		US-5,594,275	1/14/1997	Kwon, et al.		
		US-5,448,511	9/5/1995	Paurus, et al.		
		US-5,397,916	3/14/1995	Normington		
		US-5,276,418	1/4/1994	Klosowiak, et al.	-	
		US-5,117,282	5/26/1992	Salatino	,	
		US-3,766,439	10/16/1973	Isaacson		
		US-2005/0133897 A1	6/23/2005	Baek, et al.		
		US-2005/0018495 A1	1/27/2005	Bhakta, et al.		
.].		US-2004/0217461 A1	11/4/2004	Damberg		
77		US-2004/0157352 A1	8/12/2004	Beroz, et al.	1	
1/		US-2004/0075991 A1	4/22/2004	Haba, et al.		
Wa		US-2004/0045159 A1	3/11/2004	DiStefano, et al.	T	
181		US-2003/0049886 A1	3/13/2003	Salmon		

Examiner Cite No.1		Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	70
	No.1	Country Code <sup>3</sup> –Number <sup>4</sup> –Kind Code <sup>5 (# known)</sup>	MM-DD-YYYY Applicant of Cited Document		Where Relevant Passages or Relevant Figures Appear	
				<del></del>		
		V				<u> </u>
						_

Examiner Signature In B. Cystin Date Considered October Oxydocs

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Papa No. 0805a

<sup>\*</sup> EXAMINER: Itital if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-03)

AUG 1 5 2005 Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE ct of 1995, no persons are required to re

Sheet

بهاؤا

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

	CONTRACTOR OF CO
-7. <b>©</b> 0i	awork) ii chelgr
Application Number	10/631,886
Filing Date	July 11, 2003
First Named Inventor	James W. Cady, et al.
Art Unit	2841
Examiner Name	TBA ·
Attorney Docket Number	254-094-CIP5 / AK 146859

4. 1000 .		2000年12月1日 1990年11日	ika 20	W DOCUMENTS	HEALTH WITH STREET
Examiner	Cite No.1	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	No.1	Number-Kind Code <sup>2 (f known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
		US-			
		US			
		US-	•		
		US-			

	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	
Initials*	No.1	Country Code <sup>3</sup> –Number <sup>4</sup> –Kirkt Code <sup>5 (If known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	To
BV		WO 03/037053 A1	5/1/2003	Cady, et al.		
SEV.		JP 63-153849 (A)	6/27/1998	Matsubara		
PV		JP 62-230027 (A)	8/10/1987	Nakamura		
10V		JP 4-209562 (A)	7/30/1992	Uzuka, et al.		
130		JP #04368167 (A)	12/21/1992	.Omura	1	
UBV		JP 2003/347503 (A)	12/5/2003	Toshiyuki, et al.		

Examiner Signature	m	3:	sistin	Date Considered	October of	1005
			7			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Taper No. 08052

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	, hadhata faa faan d	40.5750		Con	x & A work lioning
8	Substitute for form 14	49/P10		Application Number	10/631,886
	NFORMA	TION	DISCLOSURE	Filing Date	July 11, 2003
_				First Named Inventor	James W. Cady, et al.
•		_	Y APPLICANT	Art Unit	2841
	(Use as r	nany she	ets as necessary)	Examiner Name	ТВА
Sheet	2	of	3	Attorney Docket Number	254-094-CIP5 / AK 146859

Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant
Initiats*	No.1	Number-Kind Code <sup>2 (Ir kzown)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
		US-			
	_	US-	-		
		US-		•	
		US-			
		US-			
		US-		•	
		US-			
		US-			
		US-		•	
		US-		•	
		US-			
		US-		_	
		US-			·

Examiner Initials*	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	Π.
	No.'	Country Code <sup>3</sup> –Number <sup>4</sup> –Kind Code <sup>5 (2 known)</sup>	MM-DD-YYYY Applicant of Cited Document		Where Relevant Passages or Relevant Figures Appear	1
RI		JP 2003/347475 (A)	12/5/2003	Mitsuru		
TIPV		JP 2003/309247 (A)	10/31/2003	Mitsuru		Г
9BV		JP 2000/307029 (A)	11/2/2000	Mitsuru		
SV		JP 60-254762 (A)	12/16/1985	Fujitsu		
190V	~	JP 5029534 (A)	2/5/1993	Nakamura	)	
181		JP #3 1047659 (A)	3/8/1986	Soga, et al.	1	

Examiner Signature	John	R.	Vrnistin	Date Considered October 01, 2005

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USTO. Time will vary depending upon the individual case. Any comments on Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.

To Hard Will you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.

To Hard Will you depend to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-788-9199) and select option 2.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complicition is Substitute for form 1449/PTO **Application Number** 10/631.886 Filing Date July 11, 2003 INFORMATION DISCLOSURE First Named Inventor James W. Cady, et al. STATEMENT BY APPLICANT **Art Unit** 2841 (Use as many sheets as necessary) **Examiner Name** TBA Sheet 3 **Attorney Docket Number** 254-094-CIP5 / AK 146859

Examiner	Cite No.1	Document Number	Publication Date	DOCUMENTS A STATE OF PARENTEE OF	Pages, Celumns, Lines, Where Relevant Passages or Relevant
Initials*	No.1	Number-Kind Code <sup>2 (Ir known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
		U\$-			
		US-		-	
		US-			
		US-			
_		US-			
		US-			
		US-			
		US			
		US-			·
		US-		· · · · · · · · · · · · · · · · · · ·	

<u>.</u>		FOREIG	N PATENT DOCU	MENTS	14 1 - AL G	150 ·
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	
Initials* No.	NO.	Country Code <sup>3</sup> –Number <sup>4</sup> –Kind Code <sup>5 (It known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	Τ°
131		JP \$59088863 (A)	5/22/1984	Shiragasawa, et al.		
USTV		EP 0426-303 (A2)	10/1/1990	Legg, et al.		
97V		DE 004215467 A1	11/12/1992	Chun		
MV		DE 004214102 A1	12/3/1992	Chun		
0						
					·	

	1 1	2 / /		
Examiner Signature	Um	So Clarente	Date Considered	Oittle on long
	7	1 17701		

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Nind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of Information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1459, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)

Approved for use through 07/31/2008, OMB 0851-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE work Reduction Act of 1995, no persons are required to res

TRADE INFORMATION DISCLOSURE

> STATEMENT BY APPLICANT (Use as many sheets as necessary)

Sheet 1

for form 1449/PTO

	negative series is contained a valid Owle control number.
[[4] (	iplao li Known
Application Number	10/831,886
Filing Date	July 11, 2003
First Named Inventor	James W. Cady, et al.
Art Unit	2841
Examiner Name	TBA
Attorney Docket Number	254-094-CIP5 / AK 146859

AND MARKETT TO SEE	***	THE PARTY OF THE P	armi.
		NONIPATENTALITERATURE DOCUMENTS TO THE STATE OF THE STATE	10
Examiner Initials*	Cite No.1	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/cr country where published.	Τ²
M		Tessera uZ Ball Stack Package. 4 figures that purport to be directed to the uZ' - Ball Stacked Memory, Published on the Internet.	
BV		Ron Bauer, Intel. "Stacked-CSP Delivers Flexibility, Reliability, and Space-Saving Capabilities", Volume 3, Spring 2002. Published on the Internet.	
BV		1992 Proceedings, 42nd Electronic Components & Technology Conference, May 18-20, 1992	
BV	<u>`</u>	Research Disclosure, Organic Card Device Carrier, 31318, May 1990, No. 313	
BV		IBM Technical Disclosure Bulletin, Vol. 23, No. 12, May 1981	
BI		IBM Technical Disclosure Bulletin, Vol. 20, No. 11A, Apr. 1978	
B		IBM Technical Disclosure Bulletin, vol. 32, No. 3B, Aug. 1989	
R		Orthogonal Chip Mount - A 3D Hybrid Wafer Scale Integration Technology, International Electron Device Meeting, IEDM Technical Digest, Washington, D.C., Dec. 6-9, 1987	

Examiner Signature	Th	011	7	Date Considered	Date 21 100 0
o.g.iotaro	// //	135 1/190	w/ m	Considered	Vally ch, door

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Paper No. 0805c

<sup>\*</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

	OIPE	ve.			_		Sheet 1 of 2
Form PTO-1449 (NS (Rev. 11/92)	L LAN	<b>15</b> 20	U.S. Dept. of Commerce Patent and Trademark Office	ATTY. DOCKI	et no.	SERIAI 10/631,	
INFOR	STRANE		MENT BY APPLICANT	APPLICANT			
	(Use sever	ral sheets if nec	essary)	James W. Cady	, et al.	<u> </u>	
				FILING DATE		GROUI 2841	P
(37 CFR 1.98	S(b))			July 11, 2003		2041	<del></del>
U.S. PATENT	DOCUMENTS						· · · · · · · · · · · · · · · · · · ·
*Examiner Initial	Patent Number	Issue Date	Patentee		Class	Subclass	Filing Date (if appropriate)
13/	US 5,117,282	05/26/1992	Salatino	•	357	81	10/29/1990
	US 5,448,511	09/05/1995	Paurus, et al.		365	52	06/01/1994
	US 5,642,055	06/24/1997 .	Difrancesco		324	757	05/12/1995
	US 5,917,709	06/29/1999	Johnson, et al.		361	803	06/12/1997
+,	US 6,121,676	09/19/2000	Solberg	•	257	686	12/11/1997
W	US 6,222,737 B1	04/24/2001	Ross	· · · · · · · · · · · · · · · · · · ·	361	767	04/23/1999
WV	US 6,360,433 BI	03/26/2003	Ross		29	840	09/19/2000
	<u> </u>	FOREIGN PA	TENT OR PUBLISHED FOREIGN	PATENT APPL	ICATION		
	1						Translation
	Document Number	Date	Country		Class	Subclass	Yes No
1811	2003309246(A)	10/31/2003	Japan				Partial
181/	2003086761(A)	03/20/2003	Japan				Partial
18V	2003086760(A)	03/20/2003	Japan	-			Partial
RV	2003037246(A)	02/07/2003	Japan				Partial
TON	2001332683(A)	11/30/2001	Japan				Partial
180	2001085592(A)	03/30/2001	Japan				- Partial
43/	2001077294(A)	03/23/2001	Japan				Partial
		<u> </u>	OTHER DOCUMENTS	S		I	
	<del></del>	(INCLU	IDING AUTHOR, TITLE, DATE, PERT	INENT PAGES, E	TC.)		· · · · · · · · · · · · · · · · · · ·
		<del></del>					
						<u></u>	
				<del>-</del>			
		<u></u>				. 14	
	110	Variat	/)	E CONSIDERED	Otto	201	2005
EXAMINER	<del></del>	7.00	•			<b>*</b>	•
*EXAMINER considered. In	t: Untial if citation consideration consider	lered, Whether or with next commu	not citation is in conformance with MP inication to applicant.	'EP § 609; draw lir	ie through citatio	n is not in conf	ormance and not

	/ 017	The second					Sho	et_2 of_
Form PTO-1449 (M (Rev. 11 <i>17</i> 2)	todified)	DE	U.S. Dept. of Commerce Perent and Tredemark Office	ATTY. DOCK	ET NO.	SERIA	LNO.	Ct _2, 01 _
	Barrens	ner,	APRIT DV ADDI ICARD	254-094-CIP5		10/631,		
INFOR	MATION BECED	SURE STATEM	MENT BY APPLICANT	APPLICANT				
	(Use sever	ral sheets if nece	essary)	James W. Cady	, et al.	<del>-                                      </del>		
				FILING DATE		GROU	P	
(37 CFR 1.98	3(b))			July 11, 2003		2841		
U.S. PATENT	DOCUMENTS						<del> </del>	
*Examiner Initial	Patent Number	Issue Date	Patentee Patentee		Class	Subclass	approj	
MRV.	US 6,376,769 BI	04/23/2002	Chung		174	522	03/14/20	00
<del>//\</del>	US 6,552,910 BI	04/22/2003	Moon, et al.		361	749	06/28/20	00
	US 6,627,984 B2	09/30/2003	Bruce, et al.		257	686	07/24/20	01
	US 6,660,561 B2	12/09/2003	Forthun	<del></del>	438	109	07/24/20	02
<del></del>	US 6,677,670 EQ	01/13/2004	Kondo .		257	686	04/25/20	01
	2004/0150107 AI	08/05/2004	Cha et al.		257	738	12/29/20	03
	2004/0021211 Al	02/05/2004	Damberg		257	282	09/06/20	02
	2003/0168725 Al	09/11/2003	Warner et al.		257	686	10/28/20	02
BV	2001/0040793 AI	10/15/2001	Inaba		361	749	01/31/20	01
1		FOREIGN PAT	TENT OR PUBLISHED FOREIGN	PATENT APPL	ICATION			
							Trans	slation
	Document Number	Date	Country		Class	Subclass	Yes	No
		(INCLUI)	OTHER DOCUMENTS DING AUTHOR, TITLE, DATE, PERT	S TINENT PAGES. E	TC.)			
		11110202		,	-	<del></del>		
		-						

October 02, 2005 DATE CONSIDERED **EXAMINER** \*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; draw line through citation if not in conformance and not

Paper No-0105

considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified) (Rev. 11/92)

U.S. Dept. of Commerce ent and Trademark Office

SERIAL NO. ATTY. DOCKET NO. 0254-094-CIP-5 10/631,886

INFORMATION BE STATEMENT BY APPLICANT

(Use several sheets if necessary)

PLICANT	 	 	
lu et el			

APF

Cady, et al

	(22.0	rn 1 00	141 V			FILING DATE		GROU	P	
	(37 C	FR 1.98	((b))			7/14/03		2818	·	
	U.S. P.	ATENT	DOCUMENTS							
•	•Exar Init		Patent Number	Issue Date	Patentee		Class	Subclass	Filing I	
•		3.1	5,428,190	6/27/1995	Stopperan		174/261		7/2/1993	
	0		6,097,087	8/1/2000	Farnworth, Warren M. et al		257/698	·	10/31/19	97
		_	6,323,060B1	11/27/2001	Isaak		438/109		5/5/1999	
			6,351,029B1	2/26/2002	Isaak		257/688		5/19/200	0
			6,368,896B2	4/9/2002	Farnworth, Warren M. et al		438/113		4/23/199	9
			6,410,857B1	6/25/2002	Gonya		174/254		8/13/200	1
			6,426,240B2	7/30/2002	Isaak		438/106		6/25/200	1
			6,426,549B1	7/30/2002	Isaak, Harlan R.		257/686	,	11/3/200	0
			6,444,921B1	9/3/2002	Wang, et al		174/260		2/3/2000	
	. 7		6,465,877B1	10/15/2002	Farnworth, Warren M. et al		257/668		3/27/200	0
		V	6,514,793B2	2/4/2003	<u>Isaak</u>		438/109		2/4/2003	
	<u> </u>						-			
				FOREIGN PA	TENT OR PUBLISHED FOREIGN	PATENT APPL	CATION			
			Document Number	Date	Country		Class	Subclass	Transl	ation
			Document Number	Date	Country		Class	Subciass	Yes	No
				(INCLUL	OTHER DOCUMENTS DING AUTHOR, TITLE, DATE, PERTIL	NENT PAGES, ET	rc.)			
}			110	// 5	7		0-44			
	EXAM	INER	Mm 150	Vogan	DATE	CONSIDERED	Valor	OLIZO	00	

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

AUS:554833.1

			4.7					Sheet	of
	TO-1449 (M	foodified FEB 0 9 20	n é	U.S. Dept. of Commerce Patent and Trademark Office	ATTY. DOCK	ET NO.	. SERIA	L NO.	
(Rev. I	·	/g	<i>\$</i>		0254-094-CIP-		10/631	,886	
	INFOR	MABENAN		EMENT BY APPLICANT	APPLICANT			<u> </u>	
		(Use seve	ral sheets if nee	cessary)	Cady, et al				
(27.0	TED 1 05	2/L))			FILING DATE	<u> </u>	GROUT 2818	P :	
درند .	CFR 1.98		· . ·		1114/03	<del></del>	2010		· · · · · · · · · · · · · · · · · · ·
	miner	Patent	Issue			Class	Subclass	Filing I	
lni	itial	Number	Date	Patentee		257/2	-	approp	
#)		4,763,188	8/9/1988	Johnson, Thomas		Sini_/	/	11/4/198	7
<u>V</u>		5,239,198	8/24/1993	Lin et al.		257/693	· ·	7/2/1992	
		6,028,365	2/22/2000	Akram et al.		257/778	<u>:</u>	3/30/1998	8
		6,433,418	8/13/2002	Fujisawa et al.		257/696		4/29/1999	9
_\/	1	6,208,521B1	3/27/2001	Nakatsuka, Yasuo		361/749		5/19/1998	8
1		6,265,660B1	7/24/2001	Tandy, Patrick W.		174/52.4		8/18/2000	0
8			FOREIGN PA	TENT OR PUBLISHED FOREIGN	PATENT APPL	ICATION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and Super	
		_						Transl	lation
		Document Number	Date	Country		Class	Subclass	Yes	No
B	$V_{j}$	5-21697(A)	01/1993	Japan				Partial	
13	V	57-31166(A)	02/19/1982	Japan				Partial	
V/B	1/	58-96756(A)	06/08/1983	Japan				Partial	
183	3/	58-112348(A)	07/04/1983	Japan				Partial Partial	
VIB	W	60-254762	12/1985	Japan			- 4	Partial	1 1
VIE	36	62-230027(A)	10/08/1987	Japan				Partial	
OF S	7/	63-153849(A)	06/27/1988	Japan				Partial	
7/		74 VASA 3		OTHER DOCUMENTS DING AUTHOR, TITLE, DATE, PERTI	NENT PAGES. ET	rc)			
<u>√</u> ∧	- 1	Par Nam					· · · · · · · · · · · · · · · · · · ·		
XX	TV			gabit High Speed CMOS SRAM DPS1M			<del></del>	<del></del>	
1				egabyte CMOS DRAM DP3ED32MS72			7		
Λ	\ \ \			ng Space Barriers, 3-D Technology 1993					
R	<b>}/</b>	Dense-Pac Micros	systems, DPS512	2X16A3, Ceramic 512K X 16 CMOS S	RAM Module		<del></del>		
<b>[</b> []	<i>U</i>	"Design Techniqu	es for Ball Grid	Агтауs," William R. Newberry, Xyneti.	x Design Systems	, Inc.			
		"Chip Scale Pack Electronics Inc.	aging and Redist	tribution," Paul A. Magill, Glenn A. Rin	ine, J. Daniel Mis,	, Wayne C. Mach	on, Joseph W.	. Baggs, Un	itíve
EXAM	INER	Joh B	· Vis	DATE!	CONSIDERED	Octob-	902	1200	0
*EXAI	MINER: I	thitial if citation consider lude copy of this form w	red, whether or r	not citation is in conformance with MPE nication to applicant.	EP § 609; draw lin	e through citation	if not in conf	formance an	ıd not

Filing Date (if

appropriate)

6/1/1998

Form PTO-1449 (Modified (Rev. 11/92) INFORMATION

Patent

Number

6,300,679B1

U.S. Dept. of Commerce and Trademark Office

Patentee

ATTY. DOCKET NO. SERIAL NO. 0254-094-CIP-5 10/624,097

Subclass

# TRE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Issue

Date

Mukerji et al.

10/9/2001

APPLIC	ANT

4 in.

Cady; et al

FILING DATE

(37 CFR 1.98(b))

\*Examiner

Initial

U.S. PATENT DOCUMENTS

**GROUP** 7/21/03 2818

Class

257/738

<u> </u>	6,462,412B2	10/8/2002	Kamei et al	257/723		1/17/200	)1
	6,465,893B1	10/15/2002	Khandros et al.	257/777		10/19/20	)00
	6,486,544B1	11/26/2002	Hashimoto, Nobuaki	257/686		9/3/1999	>
1	6,560,117B2	5/6/2003	Moon, Ow Chee	361/749		8/30/200	)1
1	6,572,387B2	6/3/2003	Burns et al.	439/69	<u></u>	3/19/200	12
V	6,590,282B1	7/8/2003	Wang et al.	257/686		4/12/200	)2
113V	6,600,222B1	7/29/2003	Levardo, Melvin N.	257/686		7/17/200	)2
V Project		FOREIGN PA	TENT OR PUBLISHED FOREIGN PATENT APPL	ICATION	2 4 mg - 4 - 5		
	Document Number	Date	Country	Chan	Subalasa	Translation	
10.	Document Number	Date	Country	Class	Subclass	Yes	No
MIV	EP 461-639-A	12/1991	European			х	
131/	EP 0 298 211 A#	01/11/1989	European			x	
VKSV	EP 122-687-A	10/24/1984	European			x	
JEV	SU 834-957	05/30/1981	Russian			Partial	
- Al Consta			OTHER DOCUMENTS		· 教育 2019年2月	A 1, 281, 102, 103, 103, 103	* . £160-886**

"Alterable Interposer Block for Personalizing Stacked Module Interconnections," IBM Technical Disclosure Bulletin, Vol. 30, No. 8, January 8, 1988, pp. 373-374. IBM Preliminary 168 Pin SDRAM Registered DIMM Functional Description & Timing Diagrams

> "3D Interconnection for Ultra-Dense Multichip Modules," Christian VAL, Thomson-CSF DCS Computer Division, Thierry Lermoine, Thomson-CSF RCM Radar Countermeasures Division

"High Density Memory Packaging Technology High Speed Imaging Applications," Dean Frew, Texas Instruments Incorporated

(INCLUDING AUTHOR TITLE, DATE, PERTINENT PAGES, ETC.)

Teresa Technologies, Inc. - Semiconductor Intellectual Property, Chip Scale Packaging - Website pages (3)

"Tessera Introduces uZ TM - Ball Stacked Memory Package for Computing and Portable Electronic Products" Joyce Smaragdis, Tessera Public Relations; 2 figures that purport to be directed to the uZ " - Ball Stacked Memory Package

**EXAMINER** 

considered. Include copy of this form with next communication to applicant.

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; draw line through citation if not in conformance and not

Pan No. 0204

	OIF	E. E.					Shee	t <u>3</u> of <u>5</u>		
Form PTO-1449 (M (Rev. 11/92)	40dified FEB 0 9 2	1004 (12)	U.S. Dept. of Commerce Patern and Trademark Office	ATTY. DOCKET NO. SERIAL				L NO.		
NEOD	DRMATION DISCLOSSES STATEMENT BY APPLICANT  0254-094-CIP-5  10/624,097				:4,097					
MIUA	TABE		EMENT BY APPLICANT	APPLICANT		•				
	(Use sever	ral sheets if nec	cessary)	Cady, et al						
(22 CED 1 09	0A.\\		I	FILING DATE	<u> </u>	GRO1 2818		P		
(37 CFR 1.98		<del></del>		<del>!</del>			<del></del>			
U.S. PATENT	DOCUMENTS	<u> </u>	<u> </u>		· ·	<u>·</u>	<u> </u>			
*Examiner haitial	Patent Number	Issue Date	Patentee		Class	Subclass		Date (if priate)		
BV	6,620,651B2	9/16/2003	He et al.		438/113		10/23/20			
	US2002/0139577A 1	10/3/2002	Miller, Charles A.		174/261		3/27/200	)1		
	US2002/0164838A	Nov-02	Moon et al.		438/107	İ	6/5/2001			
-	US2002/0180022A	12/5/2002	Emoto, Yoshiaki		257/686		7/19/200			
	6,072,233	6/6/2000	Corisis et al.		257/686		5/4/1998			
	Re 36,916	10/17/2000	Moshayedi		257/723		04/22/19			
	3,436,604	04/01/1969	Hyltin		317/101		04/25/19	)66		
	3,727,064	04/10/1973	Bottini		250/217		03/17/19			
	3,654,394	04/04/1972	Gordon		179/15 BL		07/08/19	69		
V	3,746,934	07/17/1973	Stein		317/101		05/06/19	71		
BU	3,772,776	11/20/1973	Weisenburger		29/628		12/03/19			
V	AVA X G 45 C	FOREIGN PA	TENT OR PUBLISHED FOREIGN	PATENT APPL	ICATION	4 /4.8	2.30			
								lation		
	Document Number	Date	Country		Class	Subclass	Yes	No		
								·		
		INCLUE	OTHER DOCUMENTS DING AUTHOR TITLE, DATE, PERTI	INENT PAGES. È	TC.)					
	Ron Bauer, Intel.		Delivers Flexibility, Reliability, and Spa			002.	<u> </u>			
RY			figures that purport to be directed to the							
			Alvin Weinberg, Pacesetter, Inc. and W				,			
EXAMINER	Ilm B.	Minch		CONSIDERED	October	02	1000			
	7/	and whether or	not citation is in conformance with MPI		ne through citatic	n if not in co	mformances	nd not		

Paper No 0204

considered. Include copy of this form with next communication to applicant.

	/O1F						Shee	t_4_of_	
Form PTO-1449 (M (Rev. 11/92)	(adified) FEB 0 S	700x 8	U.S. Dept. of Commerce Patent and Trademark Office	ATTY. DOCK	et no.	SERIA			
nucoh i	MATION STATE	TATE	PACTATO DAY A DIST TO A NOT	0254-094-CIP-	5	10/624	,097		
INFUR	INFORMATION DE LOSUS STATEMENT BY APPLICANT  APPLICANT  O254-094-CIP-5  10/624,097								
	(Use several sheets if necessary)  Cady, et al								
(37 CFR 1.98	<i>(</i> ሌ))			FILING DATE	FILING DATE GROU 7/21/03 2818			P :	
	DOCUMENTS	<del></del> -							
*Examiner	Patent Number	Issue Date	Patentee		Class	Subclass		Date (if priate)	
BV	4,103,318	07/25/1978	Schwede		361/388	<u> </u>	05/06/19		
PT	4,288,841	09/08/1981	Gogal		361/414		09/20/19	79	
	4,398,235	08/09/1983	Lutz, et al		361/393		09/11/19	80	
	4,406,508	09/27/1983	Sadigh-Behzadi	_	339/75		07/02/19	81	
	4,437,235	03/20/1984	McIver		29/840		089/23/1	982	
N	4,513,368	04/23/1985	Houseman		364/200		05/22/19	81	
BY	4,645,944	02/24/1987	Uya		307/243		09/04/19	84	
<i>O</i> .		FOREIGN PA	TENT OR PUBLISHED FOREIGN	PATENT APPL	CATION		····		
							Translation		
	Document Number	Date	Country		Class	Subclass	Yes	No	
	-	ancius	OTHER DOCUMENTS	NEWF DACES ES	~	• • • • •		<del></del>	
(INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)  Chip Scale Review Online - An Independent Journal Dedicated to the Advancement of Chip-Scale Electronics. (Webiste 9 pages) Fjelstad, Joseph, Pacific Consultants L.L.C.									
M	Flexible Thinking	: Examining the	Flexible Circuit Tapes. (Website 2 pag	es) Fjelstad, Josep	ìh.				
BV			for Demanding Applications - Advance with small size and low cost. (Website 3						
WV	Flexible Printed C	Circuit Technolog	gy - A Versatile Interconnection Option	. (Website 2 page	s) Fjelstad, Josep	h. December :	3, 2002.		
EXAMINER	Ala B. 1	ranchi	DATE	CONSIDERED	Octob	. 02	200	2.1	
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									

Paper 16. 0204

•	OIP	E Ex					Sheer	<u>1_5_of_9</u>
Form PTO-1449 (M	Modified) FEB 8 9	2004	U.S. Dept. of Commerce	ATTY. DOCK	ŒT NO.	SÉRL	AL NO.	
(Rev. 11/92)	A STATE OF THE STA		Patent and Trademark Office	0254-094-CIP-		10/624		
INFOR	RMATION DISCLOS	STATE	EMENT BY APPLICANT	APPLICANT			,07,	
	(Use seve	eral sheets if nec	cessary)	Cady, et al				
			'	FILING DATE	ē	GROU	л-	
(37 CFR 1.98	j(b))			7/21/03		2818		,
U.S. PATENT	DOCUMENTS	•	T	***			·	!
*Examiner Injtial	Patent Number	Issue Date	Patentee		Class	Subclass	Filing D	Date (if priate)
DV	4,696,525	09/29/1987	Coller, et al		439/69	<u></u> '	12/13/198	85
	4,733,461	03/29/1988	Nakano		29/830	<u> </u>	12/24/198	85
	4,821,007	04/11/1989	Fields, et al		333/238		02/06/198	87
	4,823,234	04/18/1989	Konishi, et al		361/386		07/01/198	86
	4,833,568	05/23/1989	Berhold		361/383		01/29/198	88
	4,862,249	08/29/1989	Carlson		357/80		04/17/198	
	4,884,237	11/28/1989	Mueller, et al .		365/63		03/17/198	89
	4,891,789	01/02/1990	Quattrini, et al		365/63		03/03/198	88
	4,911,643	03/27/1990	Perry, et al		439/67		08/03/198	89
	4,953,060	08/28/1990	Lauffer, et al		361/388		05/05/198	39
	4,956,694	09/11/1990	Eide		357/74		11/04/198	3 <b>8</b>
	4,983,533	01/08/1991	Go		437/7		10/28/198	37
	4,985,703	01/15/1991	Kaneyama		341/141		02/02/198	39
1	5,012,323	04/30/1991	Farnworth		357/75		11/20/198	39
	5,016,138	05/14/1991	Woodman		361/381		09/18/198	39
BV	5,034,350	07/23/1991	Marchisi		437/207		03/14/199	<del>20</del>
<u>/</u>		TON PA	TENT OR PUBLISHED FOREIGN I	100	The same of the sa	<u>-</u>		
	The state of the s	FOREIGN FAI	FENT OR PUBLISHED FUREIGN I	PATENT APPLI	CATION	1 20		
	Document Number	Date	Country		Class	Subclass	Transla	
							Yes	No
		, avcum	OTHER DOCUMENTS		- L			
<u> </u>	<del></del>	(INCLUD	DING AUTHOR, TITLE, DATE, PERTIN	VENT PAGES, E1	<u>c)</u>	<u> </u>	<u> </u>	· .
<del></del>	<del></del>			<del></del>				

EXAMINER DATE CONSIDERED VOLTON OJ, 2005

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

	410	6					Sheet 6 of
Form PTO-1449 (M (Rev. 11/92)	todified) FEB 0 9	2004	U.S. Dept. of Commerce Patent and Trademark Office	ATTY. DOCKET	r NO	SERIA	AL NO.
DIEOD	ORMATIO: DISCLOSUS STATEMENT BY APPLICANT  0254-094-CIP-5 10/624,097						,097
INFOR	MATION VISCLO	SINGESTATE	MENI BY APPLICANT	APPLICANT			
	(Use seve	eral sheets if ne	cessary)	Cady, et al			
				FILING DATE		GROU	rP :
(37 CFR 1.98	(b)) DOCUMENTS			7/21/03		2818	
		T .					
•Examiner Initial	Patent Number	Issue Date	Patentee		Class	Subclass	Filing Date (if appropriate)
BU	5,041,015	08/20/1991	Travis		439/492		03/30/1990
7	5,099,393	03/24/1992	Bentlage, et al		361/413		03/25/1991
	5,104,820	04/14/1992	Go, deceased, et al		437/51		06/24/1991
	5,138,430	08/11/1992	Gow, 3 <sup>rd</sup> , et al		357/70		06/06/1991
	5,159,434	10/27/1992	Kohno, et al		357/80		02/01/1991
	5,198,888	03/30/1993	Sugano, et al		257/686		12/20/1990
	5,222,014	06/22/1993	Lin		361/414		03/02/1992
	5,224,023	06/29/1993	Smith, et al.		361/412	_	02/10/1992
	5,241,454	08/31/1993	Ameen, et al		361/744		01/22/1992
	5,247,423	09/21/1993	Lin, et al		361/719	·	05/26/1992
	5,259,770	11/09/1993	Bates, et al		439/66		03/19/1992
	5,261,068	11/09/1993	Gaskins, et al.		395/425		05/25/1990
	5,262,927	11/16/1993	Chia, et al		361/784		02/07/1992
	5,279,029	01/18/1994	Burns		29/856		05/11/1993
	5,281,852	01/25/1994	Normington		257/685		12/10/1991
1//	5,289,062	02/22/1994	Wyland		307/577		03/23/1993
W <sub>1</sub>	5,311,401	05/10/1994	Gates, Jr. et al		361/760		07/09/1991
BI	5,313,097	05/17/1994	Haj-Ali-Ahmadi, et al TENT OR PUBLISHED FOREIGN	DATENT ADDITO	ATTION W.	257/706	
<i>y</i>		FOREIGNEA	LENT OR PUBLISHED FOREIGN	PATENT AFFEIC	AJION	*	
	Document Number	Date	Country		Class	Subclass	Translation Yes No
•		(INCLUI	OTHER DOCUMENTS				
XAMINER	Alm B.	Vyinh	DATE	CONSIDERED	Octo	(202,	2005

\*EXAMINER Initial if citation considered, whether or not citation is in conformance with MPEP § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 7 of 9 8 9 2004 Form PTO-1449 (Modified) U.S. Dept. of Commerce Patent and Trademark Office SERIAL NO. ATTY. DOCKET NO. (Rev. 11/92) 0254-094-CIP-5 10/624,097 ATEMENT BY APPLICANT INFORMATION DES APPLICANT (Use several sheets if necessary) Cady, et al **GROUP FILING DATE** 2818 (37 CFR 1.98(b)) 7/21/03 **U.S. PATENT DOCUMENTS** Examiner Patent Subclass Filing Date (if Issue Class Initial Number Date Patentee appropriate) 5,343,075 08/30/1994 Nishino 257/686 06/22/1992 09/13/1994 361/760 5,347,428 Carson, et al 12/03/1992 5,375,041 12/20/1994 McMahon 361/749 12/02/1992 5,377,077 12/27/1994 Burns 361/704 12/17/1993 5,394,010 02/28/1995 257/686 Tazawa, et al 03/12/1992 5,402,006 03/28/1995 257/796 11/10/1992 O'Donley 05/30/1995 5,420,751 361/707 10/08/1993 Burns 08/29/1995 5,446,620 Burns, et al 361/704 10/08/1993 5,455,740 10/03/1995 Burns 361/735 03/07/1994 5,475,920 12/19/1995 Burns, et al 29/856 03/04/1994 12/26/1995 5,479,318 Burns 361/735 05/12/1995 5,484,959 01/16/1996 174/524 Bums 12/11/1992 5,493,476 02/20/1996 361/735 05/22/1995 Burns 5,499,160 03/12/1996 Burns 361/704 01/30/1995 5,514,907 05/07/1996 257/723 Moshayedi 03/21/1995 5,523,619 06/04/1996 257/686 11/03/1993 McAllister, et al 5.541.812 07/30/1996 09/11/1995 Burns 361/735 FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION Translation Document Number Date Country Class Subclass Yes No OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

EXAMINER John & / / / / / / / /

DATE CONSIDERED

Cility OL 2005

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

	OT	PEN					Sheet 8 of	
Form PTO-1449 (M (Rev. 11/92)	todified) FEB 0	B 200;	U.S. Dept. of Commer Patent and Trademark Offi		CET NO.	SERIA		
INFO	MATION SCLO	SIDE ATE	MENT BY APPLICANT	0254-094-CIP	-5	10/624	,097	
APPLICANT								
(Use several sheets if necessary)  Cady, et al								
(33 OFR 1 0	20.			FILING DATE GROUP				
(37 CFR 1.98				7/21/03		2818	•	
*Examiner Initial	Patent Number	İssue Date	Patentee		Class	Subclass	Filing Date (if appropriate)	
BI	5,543,664	08/06/1996	Burns		257/787			
1/ 1"							01/20/1995	
	5,572,065	11/05/1996	Burns		257/666		10/24/1994	
	5,592,364	01/07/1997	Roane		361/735		01/24/1995	
	5,612,570	03/18/1997	Eide, et al		257/686	•	04/13/1995	
	5,631,193	05/20/1997	Burns		29/827		06/30/1995	
	5,644,161	07/01/1997	Burns		257/668		06/07/1995	
	5,654,877	08/05/1997	Burns		361/713		08/18/1995	
	5,776,797	07/07/1998	Nicewamer, Jr., et al		438/107		07/02/1997	
	5,801,437	09/01/1998	Burns		257/685		08/11/1995	
	5,805,422	09/08/1998	Otake, et al		361/749		O8/15/1997	
	5,835,988	11/10/1998	Ishii		257/684		10/24/1996	
	5,869,353	02/09/1999	Levy, et al		438/109		11/17/1997	
	5,926,369	07/20/1999	Ingraham, et al		361/699		01/22/1998	
KRV	5,949,657	09/07/1999	Karabatsos		361/803		08/25/1998	
1		FOREIGN PAT	FENT OR PUBLISHED FOREIG	N PATENT APPL	ICATION		\$ 9 M. 1 P	
							Translation	
	Document Number	Date	Country		Class	Subclass	Yes No	
					<del> </del>			
	The State	(INCLUD	OTHER DOCUMEN DING AUTHOR, TITLE, DATE, PE	TS RITINENT PAGES, E	TC.)			
EXAMINER	16 8	1/2-1	/	TE CONSIDERED	Octobe	(2)	lon C	
	Indial if aitation assaids	wad subathan as a			an shawah nisasia		d 00 5	
considered. Inc	lude copy of this form w	*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

. •	Ó	IPE					Sheet	9 of 5
Form PTO-1449 (M (Rev. 11/92)		0 9 2004 B	U.S. Dept. of Commerce Patient and Trademark Office	ATTY. DOCK 0254-094-CIP-		SERIA 10/624	L NO.	
INFOR	RMATION DECLOS	SURE STATE	EMENT BY APPLICANT	APPLICANT			<i>1071</i>	
	(Use sever	ral sheets if neo	cessary)	Cady, et al				
				FILING DATE GROUP				
(37 CFR 1.98	3(b))			7/21/03 2818				
	DOCUMENTS					: <u>.</u>		; <sub>.,</sub>
*Examiner Initial	Patent Number	Issue Date	Patentee		Class	Subclass	Filing D appropr	
BV	5,953,215	09/14/1999	Karabatsos		361/767		06/26/199	
	6,014,316	01/11/2000	Eide		361/735		06/10/199	8
	6,028,352	02/22/2000	Eide		257/686		06/10/199	8
	6,172,874BI	01/09/2001	Bartilson		361/719		04/06/199	8
	6,205,654B1	03/27/2001	Burns		29/830		12/28/199	8
	6,266,252B1	07/24/2001	Karabatsos		361/788		09/13/199	9
	6,233,650B1	05/15/2001	Johnson et al. 711/5			04/01/1998_		
	6,225,688B1	05/01/2001	Kim et al.		257/686 02/04/1999		9	
	6,262,895B1	07/17/2001	Forthun		361/749	01/13/2000		Ю
	6,281,577B1	08/28/2001	Oppermann et al.	et al. 257/724		04/22/199	7	
	6,392,162B1	05/21/2002	Karabatsos		174/261		11/10/200	0
	6,446,158B1	09/03/2002	Karabatsos		711/5		05/17/200	0
	6,473,308B2	10/29/2002	Forthun		361/749		04/19/200	1
N/	US2002/0006032A1	01/17/2002	Karabatsos 361/760		01/11/2001			
BV	US2002/0101261A1	08/01/2002	Karabatsos		326/83	_	01/29/200	2
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	FOREIGN PA	TENT OR PUBLISHED FOREIGN		ICATION			
			·				Transla	ation
	Document Number	Date	Country		Class	Subclass	Yes	No
		(INCLUI	OTHER DOCUMENTS DING AUTHOR, TITLE, DATE, PERTI			41 * . - * # *		
							-	
EXAMINER	hlm B.	Visioh	DATE	CONSIDERED	October	, 02,	2001	
	Initial if citation conside clude copy of this form w		not citation is in conformance with MPI	EP § 609; draw lii	ne through citatio	ın if not in con	formance an	d not

# This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:
BLACK BORDERS
☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
☐ FADED TEXT OR DRAWING
BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
☐ GRAY SCALE DOCUMENTS
☐ LINES OR MARKS ON ORIGINAL DOCUMENT
☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

# IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.